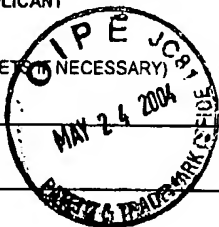


FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. USFMCR.3C1C1	APPLICATION NO. 10/718756
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Johnson, et al.	
		FILING DATE 20-Nov-2003	GROUP Unknown



U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	10/437,202	05/12/03	Muller			
	2	10/674,694	09/30/03	Zha, et al.			
	3	10/676,458	09/30/03	Cox, et al.			
	4	10/738,628	12/16/03	Muller, et al.			
	5	10/759,580	01/15/04	Zha, et al.			
	6	10/774,041	02/06/04	Zha, et al.			
	7	2001-0027951	10/11/01	Gungerich et al.			
	8	2002-0148767	10/17/02	Johnson et al.			
	9	2002-0153299	10/24/02	Mahendran et al.			
	10	2002-0195390	12/26/02	Zha et al.			
	11	2003-0075504	04/24/03	Zha et al.			
	12	2003-0089659	05/15/03	Zha et al.			
	13	2003-0136746	07/24/03	Behman et al.			
	14	2003-0141248	07/31/03	Mahendran et al.			
	15	2003-0164332	09/04/03	Mahendran et al.			
	16	2003-0178365	9/25/03	Zha et al.			
	17	2003-0205519	11/06/03	Zha et al.			
	18	2003-0226797	12/11/03	Phelps			
	19	2003-0234221	12/15/03	Johnson et al.			
	20	2004-0000520	11/1/04	Gallagher et al.			
	21	3,228,876	01/11/66	Mahon			
	22	3,693,406	09/72	Tobin			
	23	3,708,071	01/02/73	Richard P. Crowley			
	24	3,968,192	06/07/76	Hoffman et al.			
	25	3,992,301	11/76	Shippey et al.			
	26	4,188,817	02/80	Steigelmann			

EXAMINER <i>K. M. [Signature]</i>	DATE CONSIDERED 10/4/04
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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Unknown

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	27	4,192,750	03/11/80	Elfes et al.			
	28	4,193,780	03/80	Cotton et al.			
	29	4,218,324	08/19/80	Hartmann et al.			
	30	4,248,648	02/81	Kopp			
	31	4,384,474	05/83	Kowalski			
	32	4,385,150	05/24/83	Miyake et al.			
	33	4,451,369	05/29/84	Sekino et al.			
	34	4,511,471	04/85	Müller			
	35	4,540,490	09/10/85	Shibata et al.			
	36	4,547,289	10/85	Okano et al.			
	37	4,609,465	09/02/86	Miller			
	38	4,614,109	09/86	Hoffman			
	39	4,632,745	12/30/86	Giuffrida et al.			
	40	4,636,296	01/13/87	Kunz			
	41	4,642,182	02/87	Drori			
	42	4,647,377	03/03/87	Miura			
	43	4,650,596	03/17/87	Ellis			
	44	4,656,865	04/87	Callan			
	45	4,660,411	04/87	Reid			
	46	4,670,145	06/02/87	Edwards			
	47	4,673,507	6/16/87	Brown			
	48	4,687,561	08/18/87	Kunz			
	49	4,688,511	08/25/87	Gerlach et al.			
	50	4,718,270	01/86	Storr			
	51	4,744,240	05/88	Reichelt			
	52	4,756,875	07/12/88	Tajima et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	53	4,767,539	8/88	Ford			
	54	4,779,448	10/88	Gogins			
	55	4,784,771	11/88	Wathen et al.			
	56	4,793,932	12/88	Ford et al.			
	57	4,797,211	01/89	Ehrfeld et al.			
	58	4,810,384	03/07/89	Fabre			
	59	4,812,235	03/14/89	Seleman et al.			
	60	4,816,160	03/89	Ford et al.			
	61	4,846,970	07/89	Bertelsen et al.			
	62	4,876,006	10/24/89	Ohkubo et al.			
	63	4,876,012	10/24/89	Kopp et al.			
	64	4,921,610	05/01/90	Ford et al.			
	65	4,931,186	06/05/90	Ford et al.			
	66	4,935,143	06/90	Kopp et al.			
	67	4,999,038	03/91	Lundberg			
	68	5,005,430	04/91	Kibler et al.			
	69	5,024,762	06/18/91	Ford et al.			
	70	5,066,375	11/19/91	Parsi et al.			
	71	5,066,401	11/19/91	Muller et al.			
	72	5,066,402	11/91	Anselme et al.			
	73	5,069,065	12/91	Sprunt et al.			
	74	5,076,925	12/31/91	Roesink et al.			
	75	5,079,272	01/07/92	Allegrezza, et al.			
	76	5,094,750	03/10/92	Kopp et al.			
	77	5,104,535	04/14/92	Cote et al.			
	78	5,104,546	04/92	Filson et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	79	5,137,631	08/11/92	Eckman, et al.			
	80	5,138,870	08/92	Lyssy			
	81	5,151,191	09/29/92	Sunaoka et al.			
	82	5,151,193	09/29/02	Grobe et al.			
	83	5,158,721	10/27/92	Allegrezza, et al.			
	84	5,182,019	01/26/93	Cote et al.			
	85	5,192,456	3/93	Ishida et al.			
	86	5,194,149	03/16/93	Selbie et al.			
	87	5,198,116	03/93	Comstock et al.			
	88	5,209,852	05/11/93	Sunaoka, et al.			
	89	5,211,823	05/18/93	Giuffrida et al.			
	90	5,221,478	06/22/93	Dhingra et al.			
	91	5,227,063	07/13/93	Langerak, et al.			
	92	5,248,424	09/08/93	Cote et al.			
	93	5,297,420	03/94	Gilliland et al.			
	94	5,320,760	06/14/94	Freund et al.			
	95	5,353,630	10/94	Soda et al.			
	96	5,361,625	11/94	Ylvisaker			
	97	5,364,527	11/15/94	Zimmerman et al.			
	98	5,389,260	02/95	Hemp			
	99	5,401,401	03/95	Hickok			
	100	5,403,479	04/04/95	Smith et al.			
	101	5,405,528	04/11/95	Selbie et al.			
	102	5,417,101	05/23/95	Weich			
	103	5,419,816	05/95	Sampson et al.			
	104	5,470,469	11/28/95	Eckman			

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	105	5,477,731	12/26/95	Mouton			
	106	5,480,553	01/02/96	Yamamori et al.			
	107	5,531,848	07/02/96	Brinda et al.			
	108	5,531,900	07/02/96	Raghaven et al.			
	109	5,543,002	08/06/96	Brinda et al.			
	110	5,554,283	09/10/96	Brinda et al.			
	111	5,607,593	03/04/97	Cote et al.			
	112	5,639,373	06/17/97	Mahendran et al.			
	113	5,639,373	06/17/97	Mahendran et al.			
	114	5,643,455	07/01/97	Kopp et al.			
	115	5,783,083	07/21/98	Henshaw et al.			
	116	5,910,250	06/08/99	Mahendran et al.			
	117	5,914,039	06/22/99	Mahendran			
	118	5,918,264	06/29/99	Drummond et al.			
	119	5,942,113	08/24/99	Morimura			
	120	5,944,997	08/31/99	Pedersen et al.			
	121	6,024,872	02/15/00	Mahendran			
	122	6,039,872	03/21/00	Wu et al.			
	123	6,042,677	03/28/00	Mahendran et al.			
	124	6,048,454	04/00	Jenkins			
	125	6,077,435	6/20/00	Beck et al.			
	126	6,083,393	07/07/00	Wu et al.			
	127	6,146,747	11/14/00	Wang et al.			
	128	6,156,200	12/5/00	Zha et al.			
	129	6,159,373	12/00	Beck et al.			
	130	6,193,890	02/27/01	Pederson et al.			

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	131	6,202,475	03/20/01	Selbie et al.			
	132	6,245,239	06/12/01	Cote et al.			
	133	6,254,773	07/03/01	Biltoft			
	134	6,294,039	09/25/02	Mahendran et al.			
	135	6,354,444	03/12/02	Mahendran			
	136	6,440,303	08/02	Spriegel			
	137	6,524,481	2/25/03	Zha et al.			
	138	6,550,747	04/22/03	Rabie et al.			
	139	6,555,005	04/03	Zha et al.			
	140	6,620,319	09/16/03	Behmann et al.			
	141	6,641,733	11/04/03	Zha et al.			
	142	6,645,374	11/11/03	Cote et al.			
	143	D396,046	07/98	Scheel et al.			
	144	D396,726	08/98	Sadr et al.			
	145	D400,890	11/98	Gambardella			
	146	D462,699	09/10/02	Johnson et al.			
	147	D478,913	08/26/03	Johnson, et al.			
	148	D763,612	08/88	Iwanami			
	149	H1,045	05/92	Wilson			
	150	RE37,549	02/19/02	Mahendran et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	151	DE 4 117 422	11/12/92	Germany (English language abstract)				X
	152	EP 920 904 A1	12/12/00	EPO				
	153	EP 0 463 627 B1	05/10/95	EPO				

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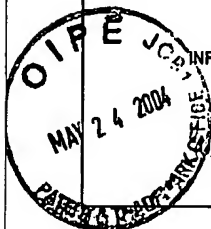
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	154	EP 0 763 758 A1	10/02/96	EPO				
	155	EP 0 911 073	4/28/99	EPO				
	156	EP 1 052 012 A1	11/15/00	EPO				
	157	FR 2 674 448 A1	02/10/92	France (English language abstract)				X
	158	GB 2 253 572 A	09/16/92	United Kingdom				
	159	JP 01-307409	12/89	Japan (abstract only)				X
	160	JP 02-164423	06/25/90	Japan (abstract only)				X
	161	JP 02-284035	11/21/90	Japan (abstract only)				X
	162	JP 03-018373	01/25/91	Japan (abstract only)				X
	163	JP 03-028797	02/06/91	Japan (abstract only)				X
	164	JP 04-310223	11/02/92	Japan (abstract only)				X
	165	JP 05-023557	02/02/93	Japan (abstract only)				X
	166	JP 05-157654	06/93	Japan (abstract only)				X
	167	JP 06-071120	03/15/94	Japan (abstract only)				X
	168	JP 06-114240	04/26/94	Japan (abstract only)				X
	169	JP 07-000770	01/06/95	Japan (abstract only)				X
	170	JP 07-275665	10/24/95	Japan (abstract only)				X
	171	JP 08-010585	01/16/96	Japan (abstract only)				X
	172	JP 09-141063	06/06/97	Japan (abstract only)				X
	173	JP 10-156149	06/16/98	Japan (abstract only)				X
	174	JP 31-010445	05/10/91	Japan (abstract only)				X
	175	JP 58-088007	05/26/83	Japan (abstract only)				X
	176	JP 61-097006	05/15/86	Japan (abstract only)				X
	177	JP 61-107905	05/26/86	Japan (abstract only)				X
	178	JP 61-192309	08/26/86	Japan (translation only)			X	
	179	JP 61-257203	11/14/86	Japan (abstract only)			X	X

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							YES	NO
	180	JP 61-263605	11/21/86	Japan (abstract only)				X
	181	JP 62-004408	01/10/87	Japan (abstract only)				X
	182	JP 62-114609	05/26/87	Japan (abstract only)				X
	183	JP 62-140607	06/24/87	Japan (abstract only)				X
	184	JP 62-179540	08/06/87	Japan (abstract only)				X
	185	JP 63-097634	04/28/88	Japan (abstract only)				X
	186	JP 63-180254	02/01/90	Japan (abstract only)				X
	187	JP 63-143905	06/16/88	Japan (abstract only)				
	188	JP 06-343837	12/20/94	Japan (abstract only)				
	189	JP 07-185268	07/25/95	Japan (abstract only)				
	190	WO 90/00434	01/25/90	PCT				
	191	WO 93/02779	02/18/93	PCT				
	192	WO 96/41676	12/27/96	PCT				
	193	WO 96/07470	03/14/96	PCT				
	194	WO 98/22204	05/28/98	PCT				
	195	WO 99 59707	11/29/99	PCT				
	196	WO 01/36075	05/25/01	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
*	197	Derwent Abstract Accession No. 2001-142268/15, Class A88, J01 JP, A1, 2000342932 (Mitsubishi Rayon Co. Ltd.), December 12, 2000.
	198	Almulla et al., Desalination 153 (2002) 237-243.
	199	Rosenberger et al., Desalination 151 (2002) 195-200.
	200	Cote et al., Wat. Sci. Tech. 38(4-5) (1998) 437-442.

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EXAMINER	<i>K. M. M.</i>	DATE CONSIDERED	10/9/04
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Reference No. 197 is missing.